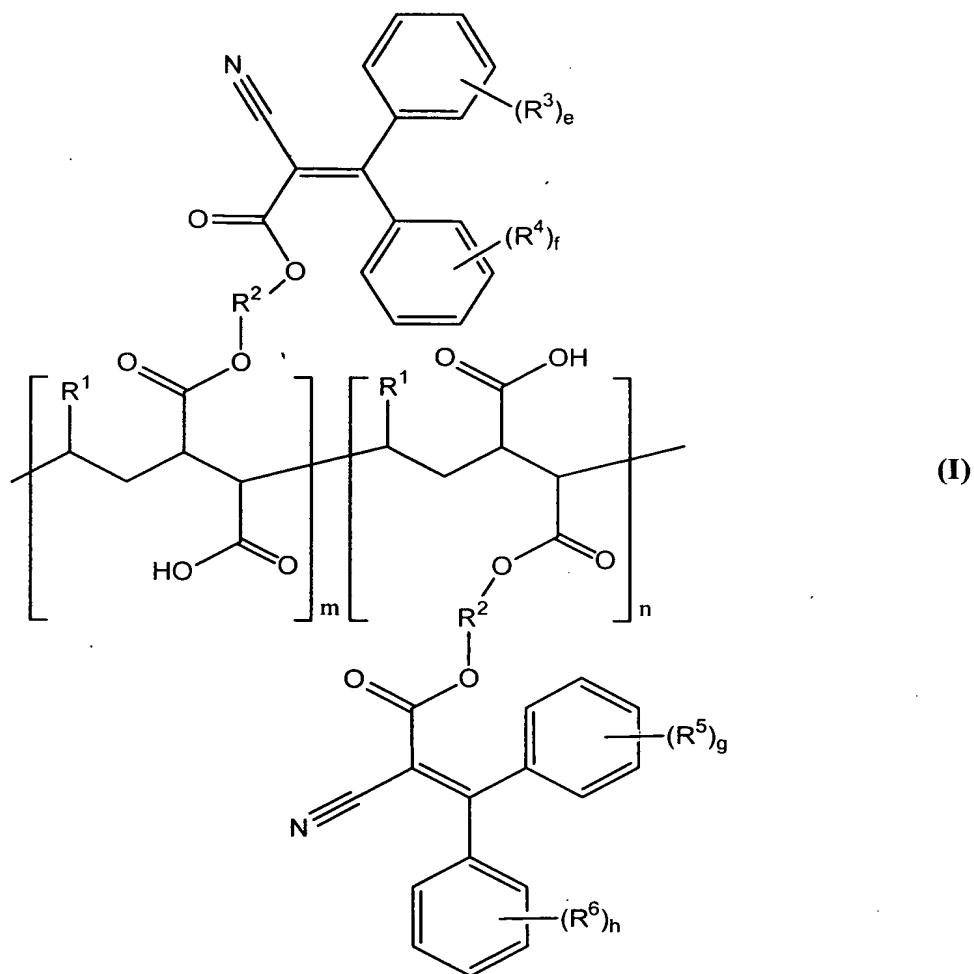


WHAT IS CLAIMED IS:

1. A compound of formula (I):



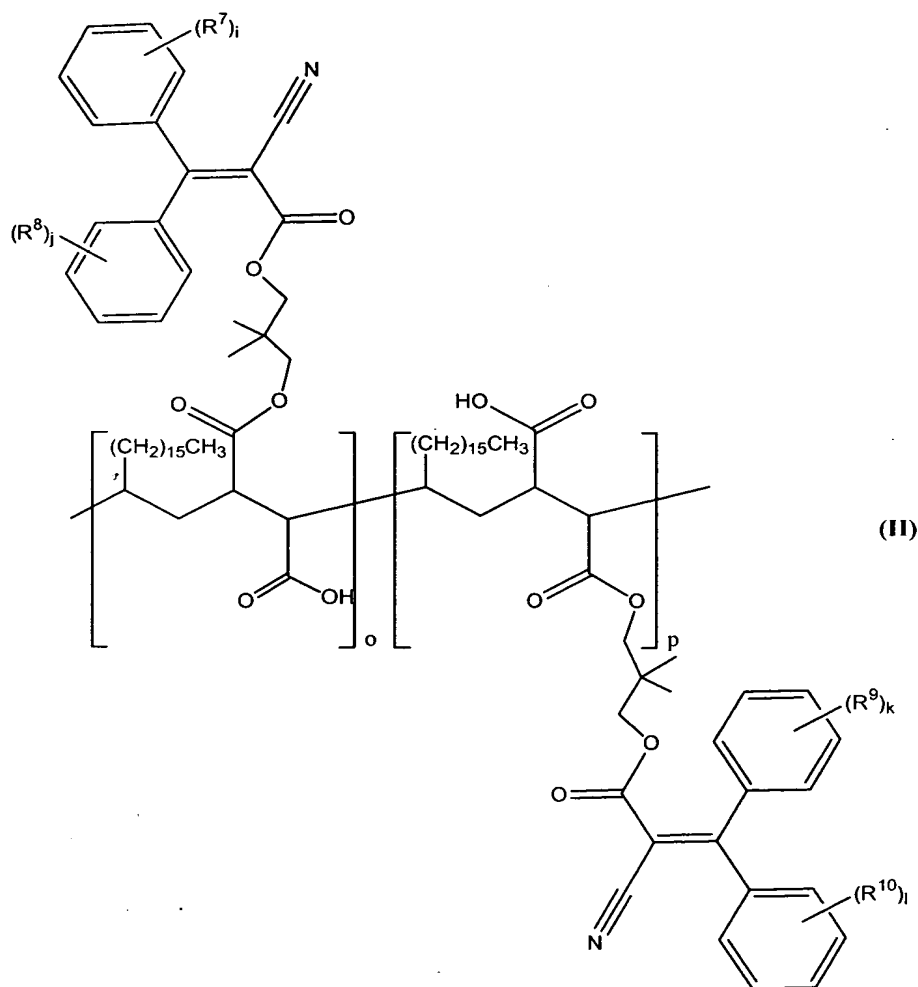
wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the
 5 group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8
 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,
 substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h
 are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum
 of m plus n is at least 1.

2. The compound of claim 1, wherein R^1 and R^2 are selected from the group consisting of C_1 - C_{30} alkyl groups.

3. The compound of claim 2, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

5 4. The compound of claim 1, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

5. A compound of formula (II):

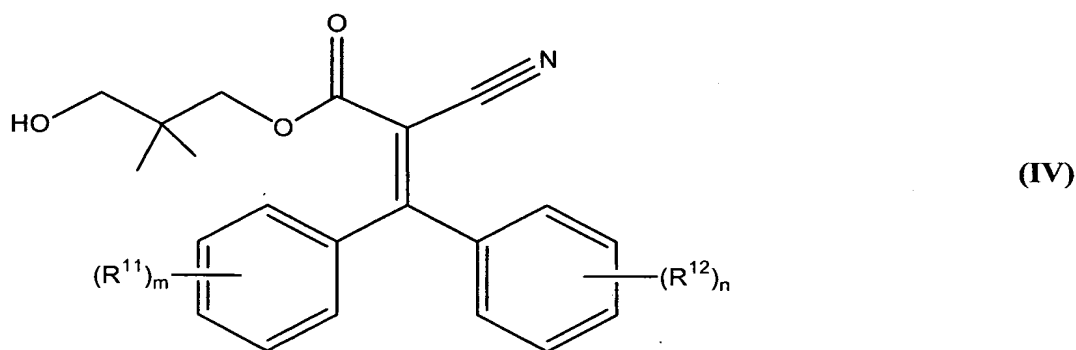
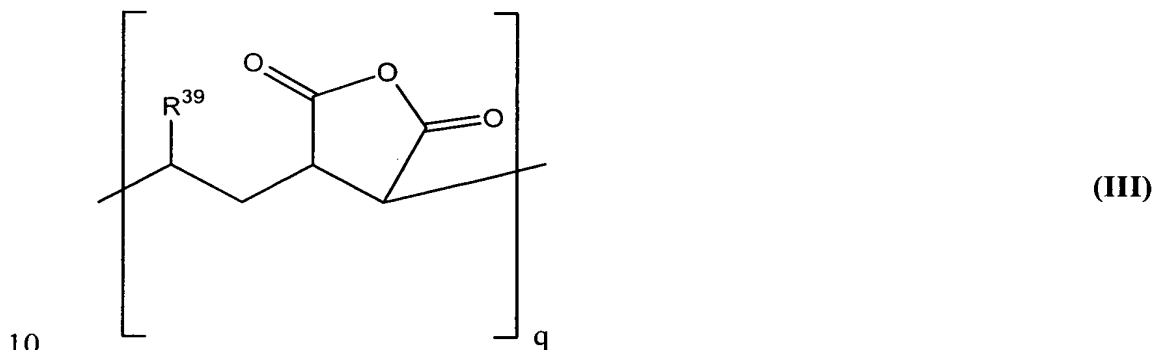


wherein R^7 , R^8 , R^9 , and R^{10} are the same or different and selected from the group
10 consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8

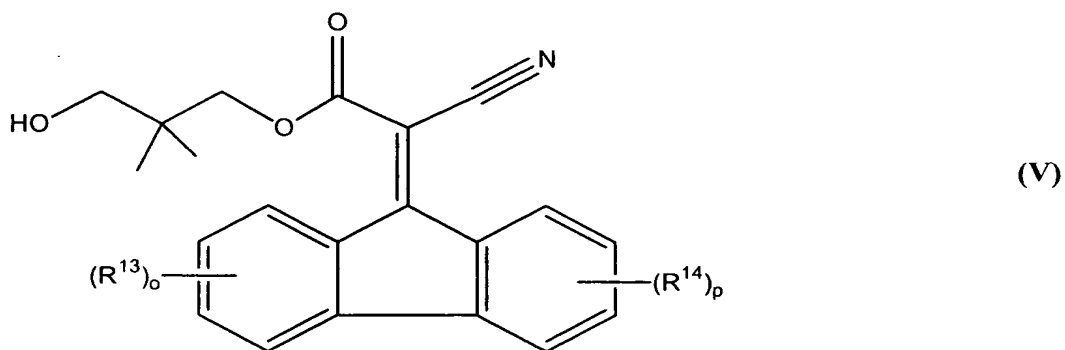
substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, i, j, k, and l are each in the range of 0 to 4, o and p are each in the range of 0 to 5000, and the sum of o plus p is at least 1.

5 6. The compound of claim 5, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

7. The product of the reaction between the polymer of formula (III) and a compound selected from the group consisting of compounds of formulae (IV), (V), and combinations thereof:



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wherein R^{11} , R^{12} , R^{13} , R^{14} , and R^{39} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,

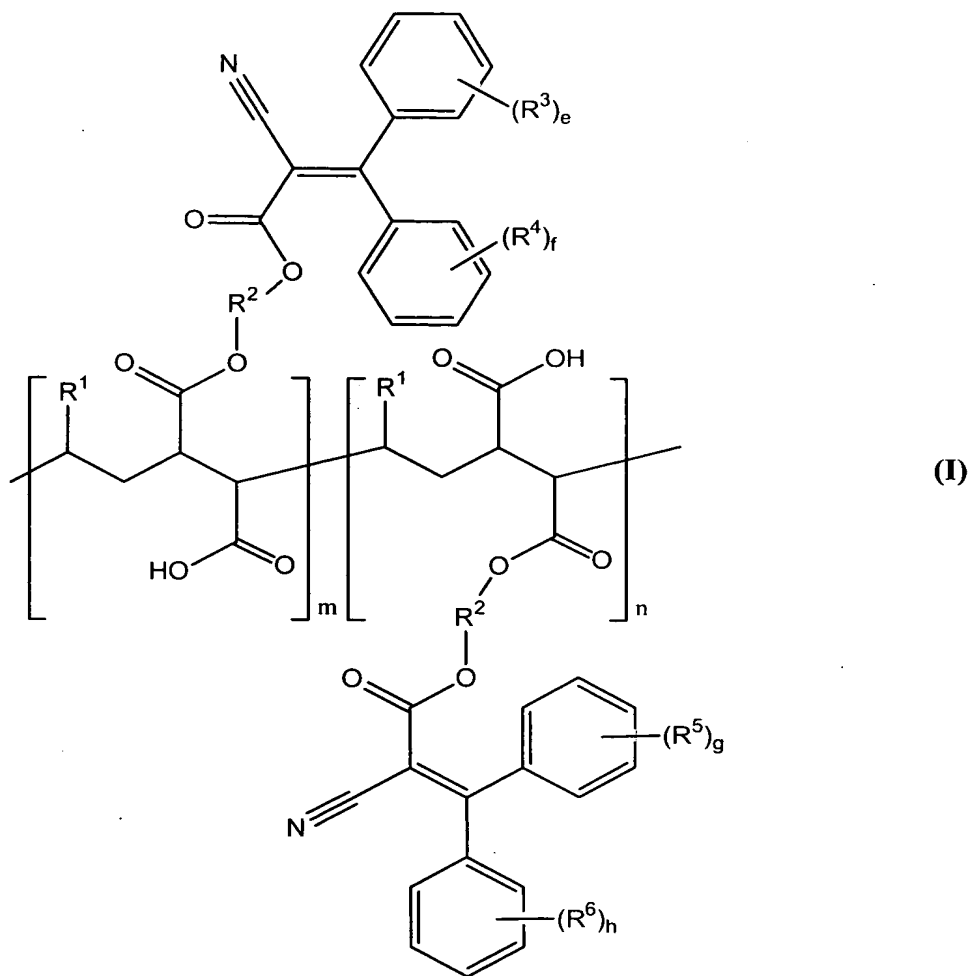
5 substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, m, n, o, and p are each in the range of 0 to 4, and q is in the range of 2 to 5000.

8. The product of claim 7, wherein, wherein R^{39} is selected from group consisting of C_1 - C_{30} alkyl groups.

9. The product of claim 8, wherein, wherein R^{39} is a C_{16} straight chain
10 alkyl group.

10. The product of claim 7, wherein the Weight-Average Molecular Weight of said product is in the range of about 30,000 to about 110,000.

11. A sunscreen composition, comprising a mixture of a photoactive compound, and a compound of formula (I):



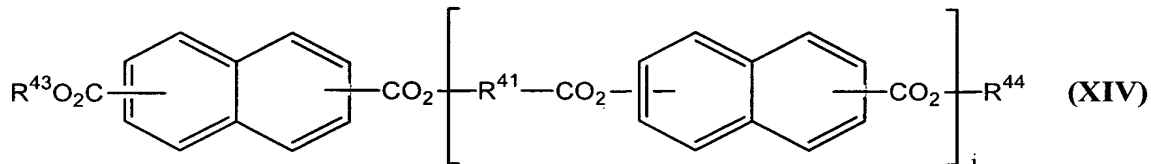
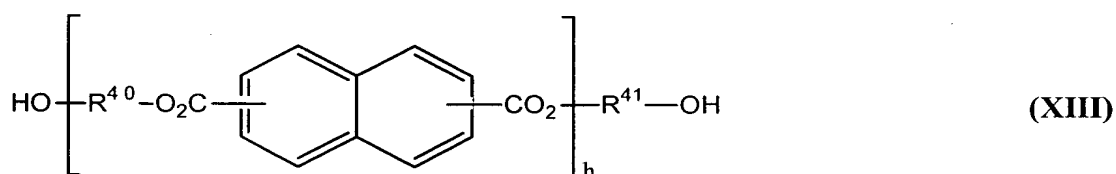
wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum of m plus n is at least 1.

12. The composition of claim 11, wherein R^1 and R^2 are selected from the group consisting of C_1 - C_{30} alkyl groups.

13. The composition of claim 12, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

14. The composition of claim 11, wherein said compound of formula (I) is present said composition in an amount in the range of about 0.01% to about 30% by weight of the total weight of the composition.

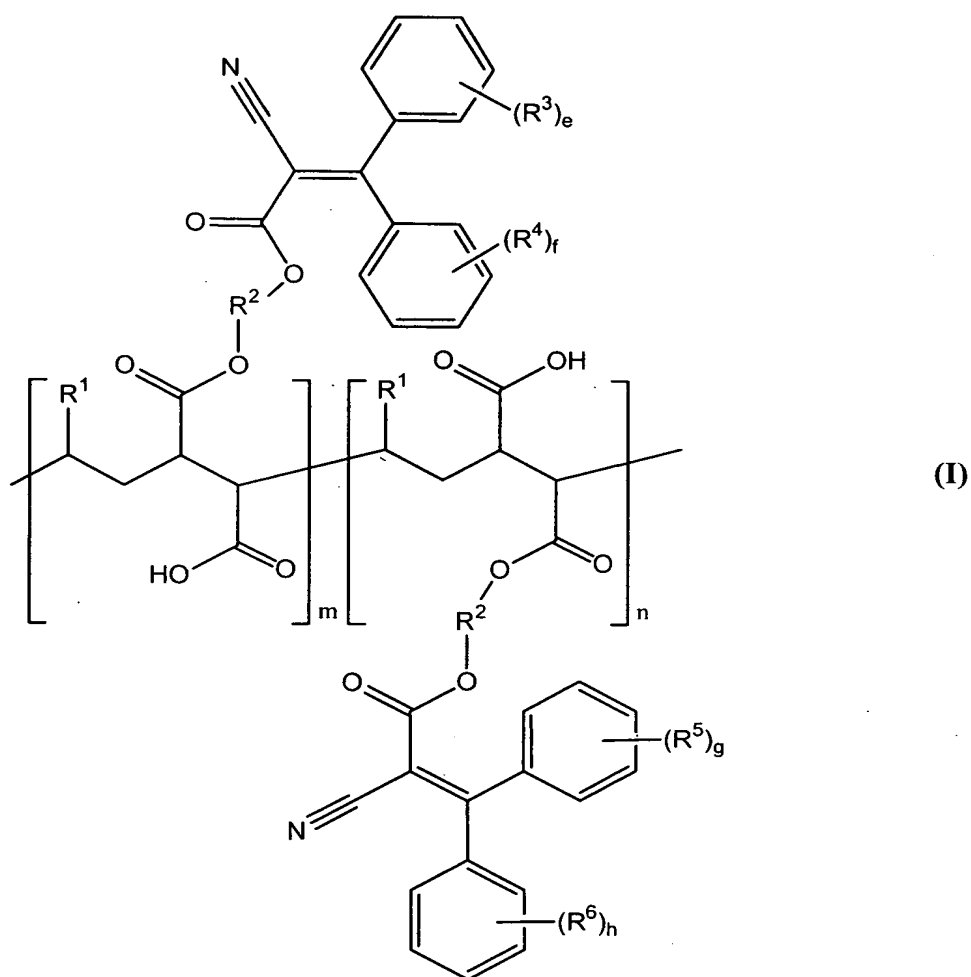
15. The composition of claim 11, further comprising a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of formulae (XIII) and (XIV), and combinations thereof:



10 wherein R^{43} and R^{44} are the same or different and selected from the group consisting of C_1 - C_{22} alkyl groups, diols having the structure $\text{HO}-\text{R}^{41}-\text{OH}$, and polyglycols having the structure $\text{HO}-\text{R}^{40}-(\text{O}-\text{R}^{41})_j-\text{OH}$; wherein each R^{40} and R^{41} is the same or different and selected from the group consisting of C_1 - C_6 straight or branched chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.

16. A method of protecting human skin from ultraviolet radiation comprising topically applying to said skin, in a cosmetically acceptable carrier, the composition of claim 11.

17. A method of protecting human skin from ultraviolet radiation, comprising topically applying to said skin, in a cosmetically acceptable carrier, a compound of formula (I):

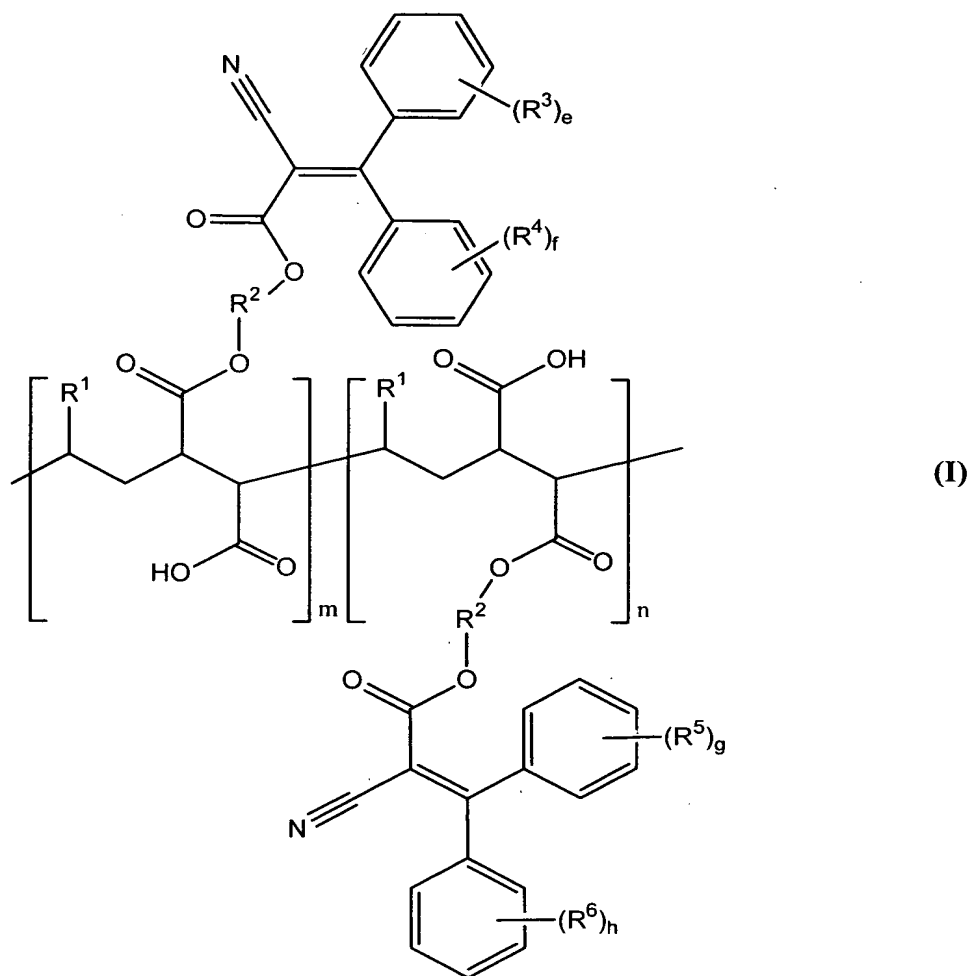


5 wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum
10 of m plus n is at least 1.

18. The method of claim 17, wherein R^1 and R^2 are selected from the group consisting of C_1 - C_{30} alkyl groups.

19. The method of claim 18, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

5 20. A method of waterproofing a surface, comprising applying a compound of formula (I) to a selected area of said surface:



wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,

10

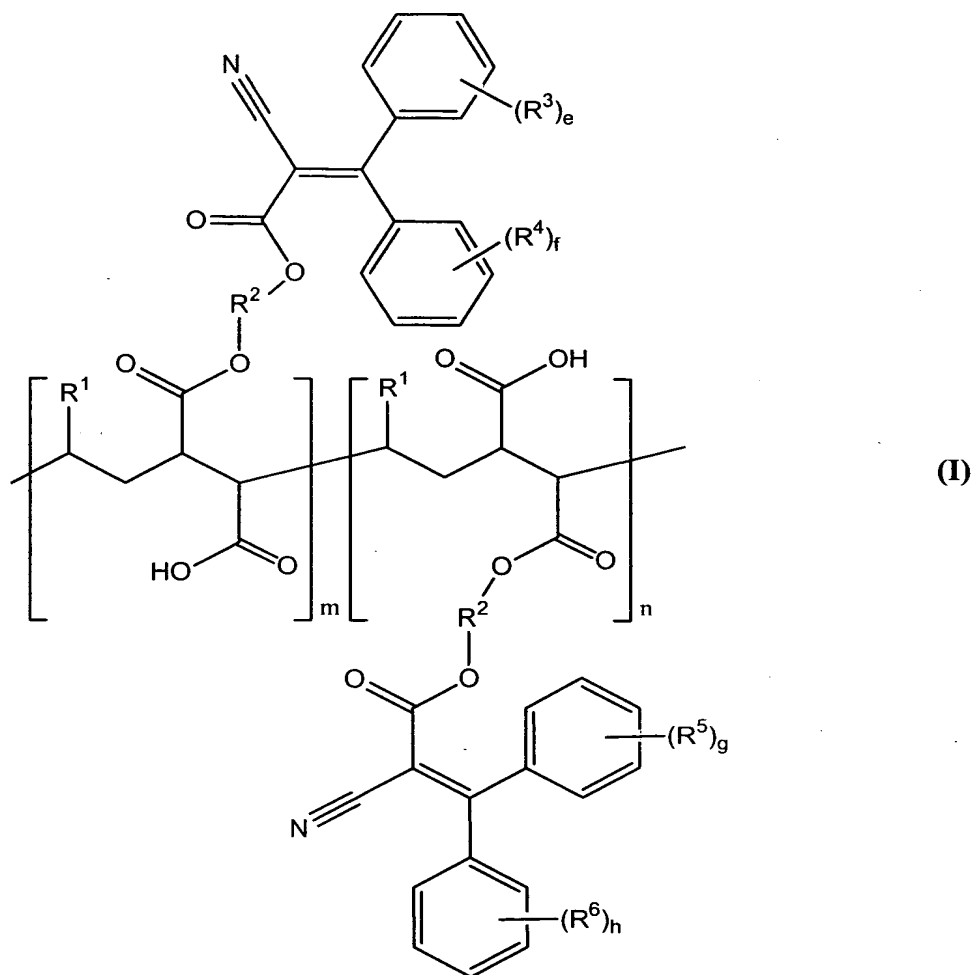
substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum of m plus n is at least 1.

21. The method of claim 20, wherein R^1 and R^2 are selected from the
5 group consisting of C_1 - C_{30} alkyl groups.

22. The method of claim 21, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

23. A method of protecting a selected area of a material from
photodegradation, comprising applying a compound of formula (I) to said selected
10 area of said material:

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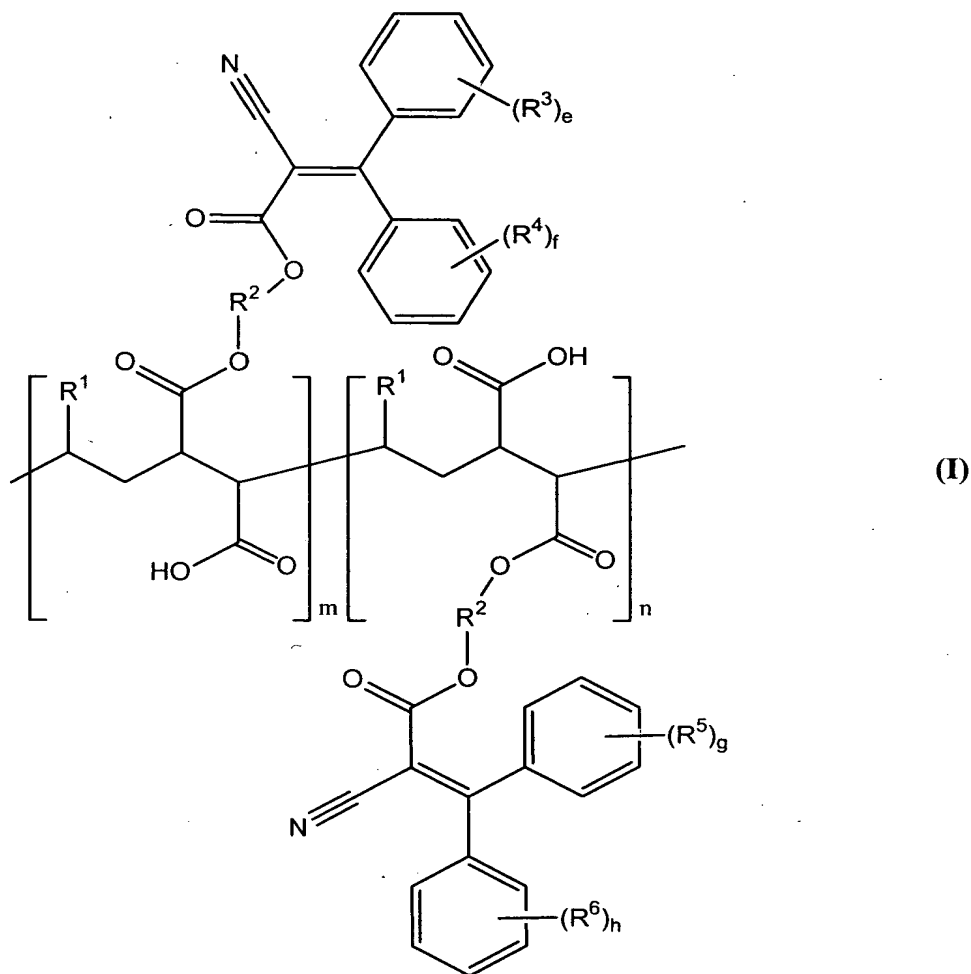


wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum of m plus n is at least 1.

24. The method of claim 23, wherein R^1 and R^2 are selected from the group consisting of C_1 - C_{30} alkyl groups.

25. The method of claim 24, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

26. A method for forming a film over at least part of a surface, comprising spreading a compound of formula (I) on said part of said surface:



5

wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h

27. The method of claim 26, wherein R¹ and R² are selected from the group consisting of C₁-C₃₀ alkyl groups.

29. A method of photostabilizing a dibenzoylmethane derivative, said method comprising the step of, adding to said dibenzoylmethane derivative a photostabilizing amount of a compound of formula (I):

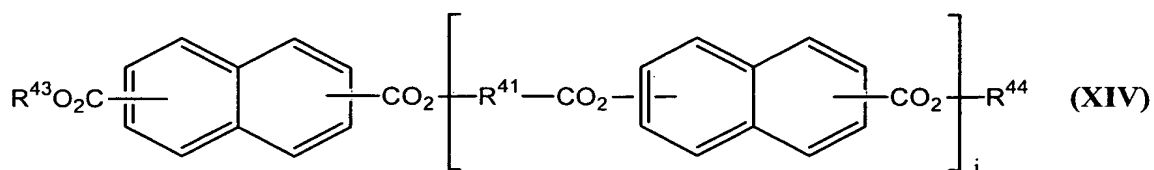
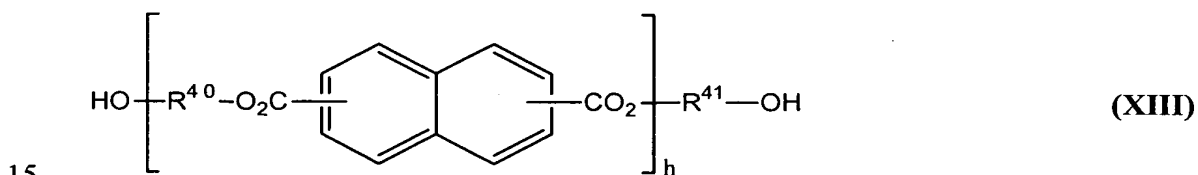


wherein R^1 , R^2 , R^3 , R^4 , R^5 , and R^6 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, g, f, and h are each in the range of 0 to 4, m and n are each in the range of 0 to 5000, and the sum of m plus n is at least 1.

30. The method of claim 29, wherein R^1 and R^2 are selected from the group consisting of C_1 - C_{30} alkyl groups.

31. The method of claim 30, wherein R^1 is a C_{16} straight chain alkyl group, and R^2 is a 2,2-dimethylpropyl group.

32. The method of claim 29, further comprising the step of, adding to said dibenzoylmethane derivative a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of formulae (XIII) and (XIV), and combinations thereof:

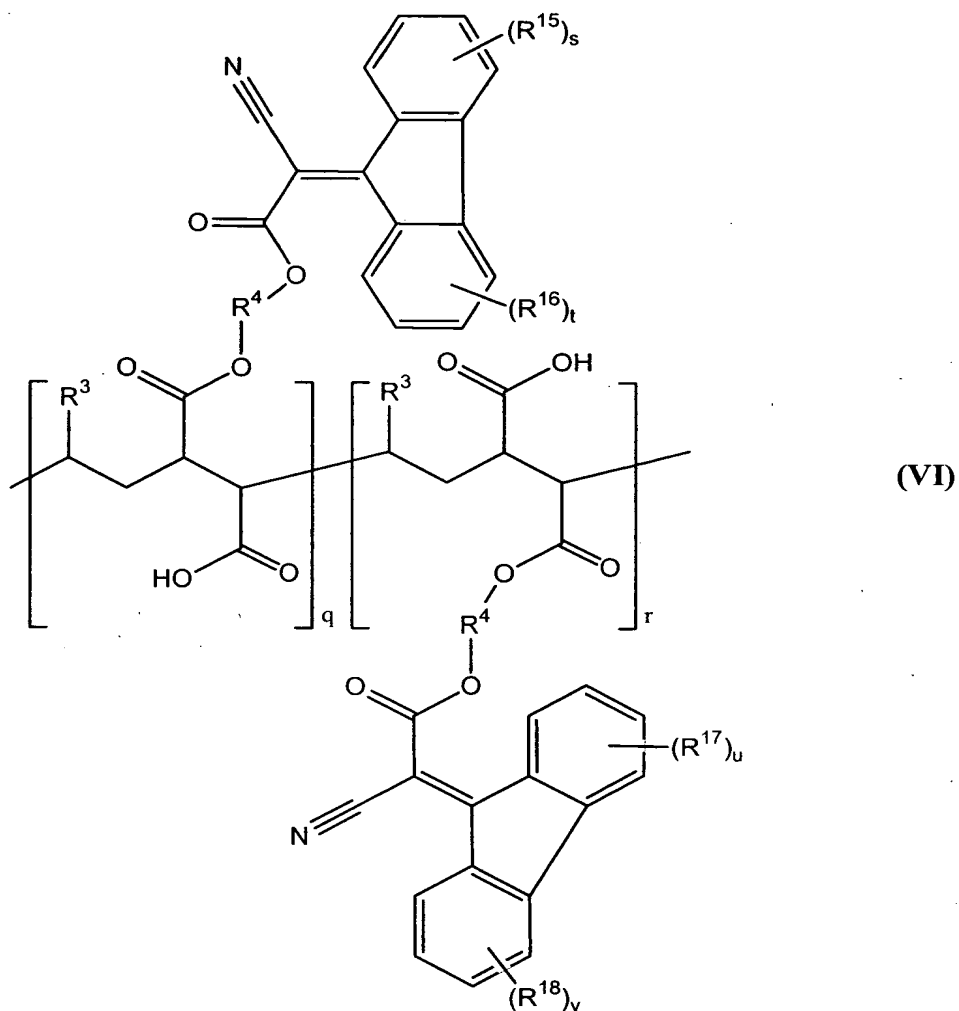


wherein R^{43} and R^{44} are the same or different and selected from the group consisting of C_1 - C_{22} alkyl groups, diols having the structure $\text{HO}-\text{R}^{41}-\text{OH}$, and polyglycols having the structure $\text{HO}-\text{R}^{40}-(-\text{O}-\text{R}^{41}-)_j-\text{OH}$; wherein each R^{40} and R^{41} is the same or different and selected from the group consisting of C_1 - C_6 straight or branched

20

chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.

33. A compound of formula (VI):



- 5 wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v

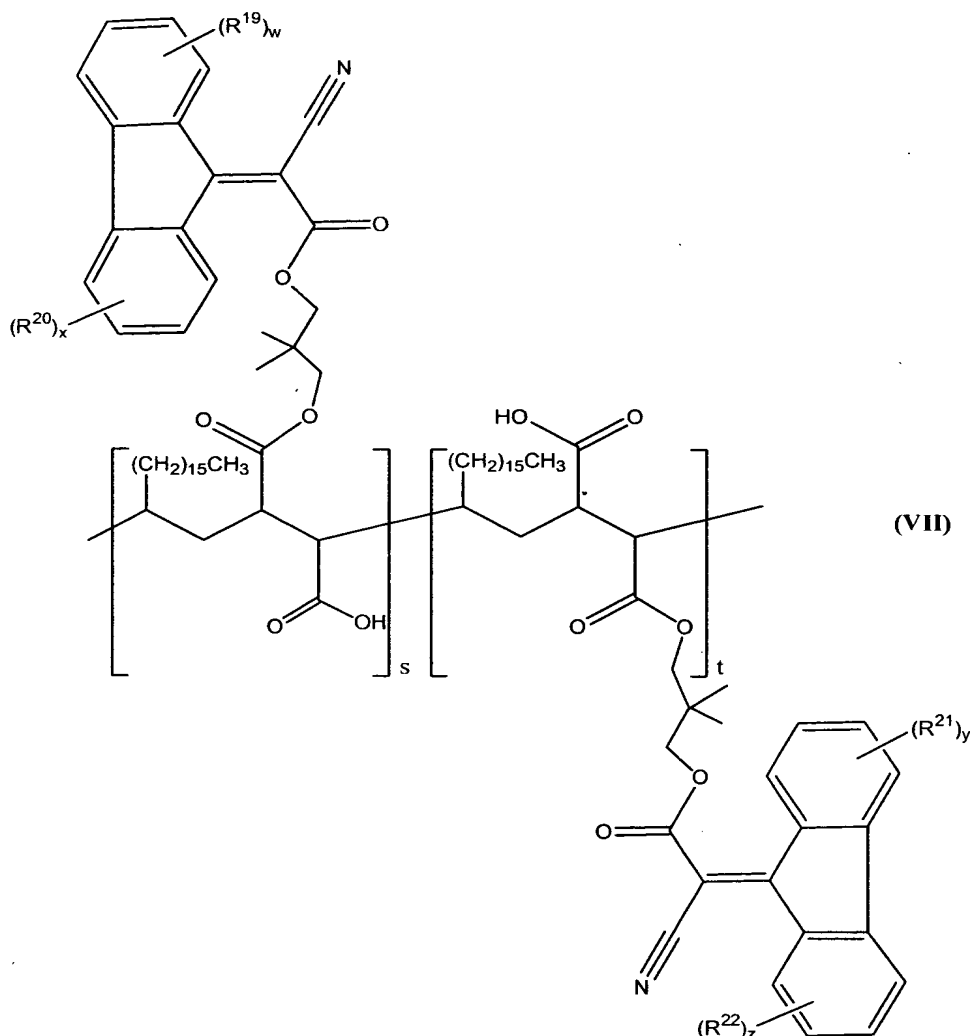
are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

34. The compound of claim 33, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

5 35. The compound of claim 34, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

36. The compound of claim 33, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

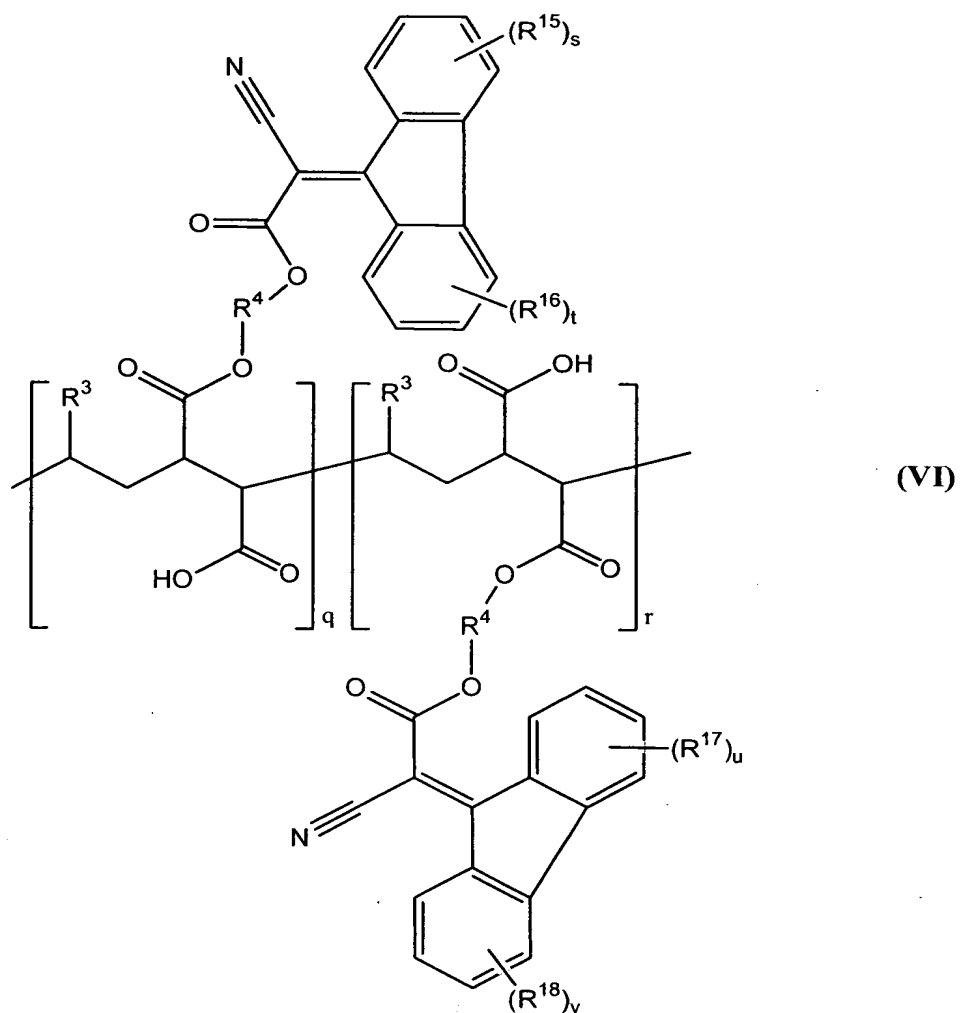
37. A compound of formula (VII):



wherein R^{19} , R^{20} , R^{21} , and R^{22} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, w , x , y , and z are each in the range of 0 to 4, s and t are each in the range of 0 to 5000, and the sum of s plus t is at least 1.

38. The compound of claim 37, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

39. A sunscreen composition, comprising a mixture of a photoactive compound, and a compound of formula (VI):



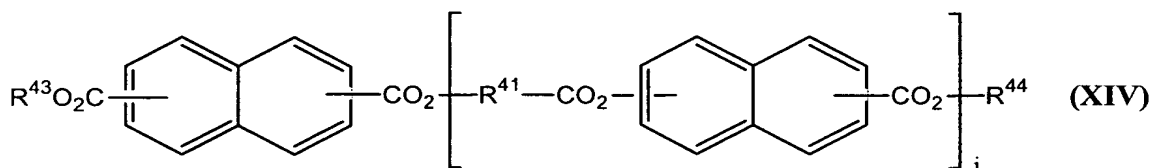
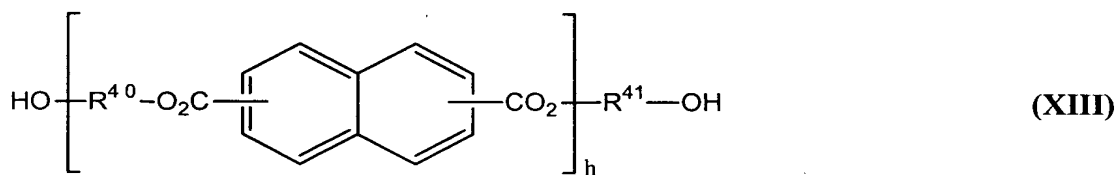
wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the
 5 group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

40. The composition of claim 39, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

41. The composition of claim 40, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

5 42. The composition of claim 39, wherein said compound of formula (VI) is present said composition in an amount in the range of about 0.01% to about 30% by weight of the total weight of the composition.

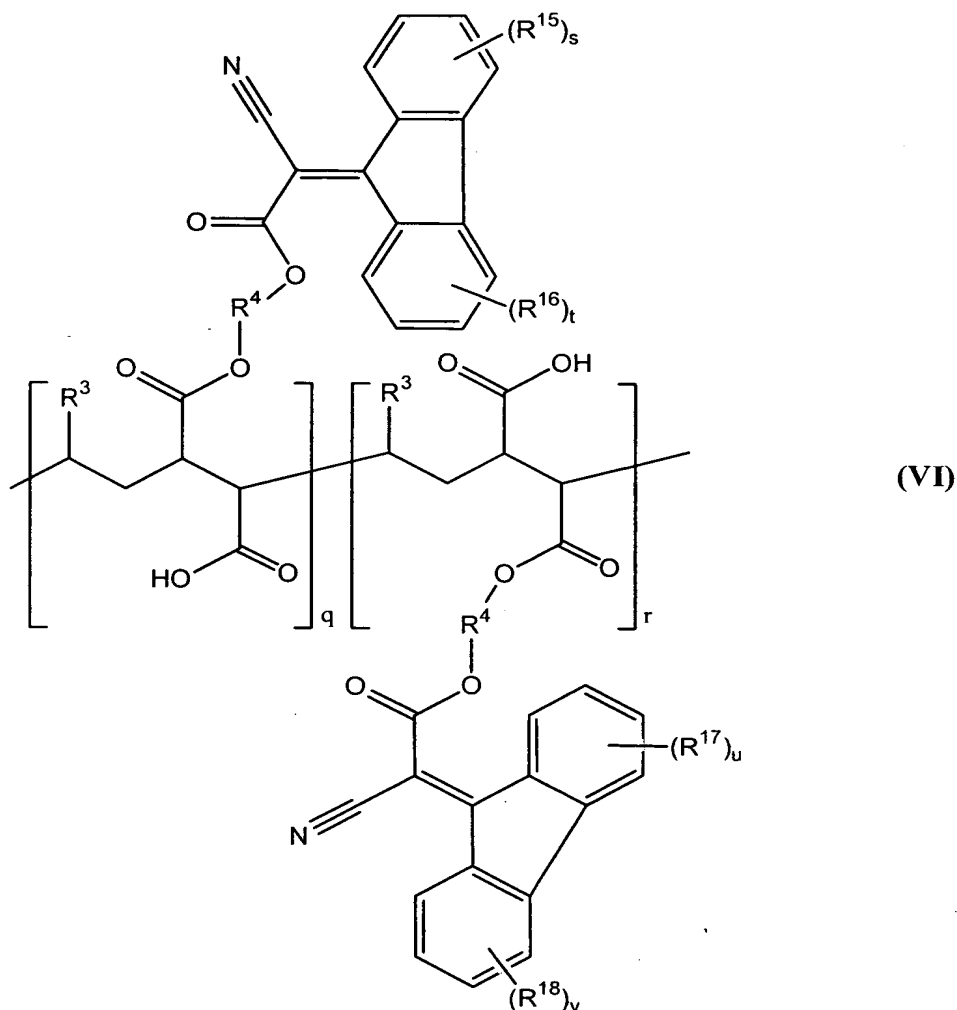
43. The composition of claim 39, further comprising a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of
10 formulae (XIII) and (XIV), and combinations thereof:



wherein R^{43} and R^{44} are the same or different and selected from the group consisting of C_1 - C_{22} alkyl groups, diols having the structure $\text{HO}-\text{R}^{41}-\text{OH}$, and polyglycols
15 having the structure $\text{HO}-\text{R}^{40}-(\text{O}-\text{R}^{41})_j-\text{OH}$; wherein each R^{40} and R^{41} is the same or different and selected from the group consisting of C_1 - C_6 straight or branched chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.

44. A method of protecting human skin from ultraviolet radiation comprising topically applying to said skin, in a cosmetically acceptable carrier, the composition of claim 39.

45. A method of protecting human skin from ultraviolet radiation, comprising topically applying to said skin, in a cosmetically acceptable carrier, a compound of formula (VI):



wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8

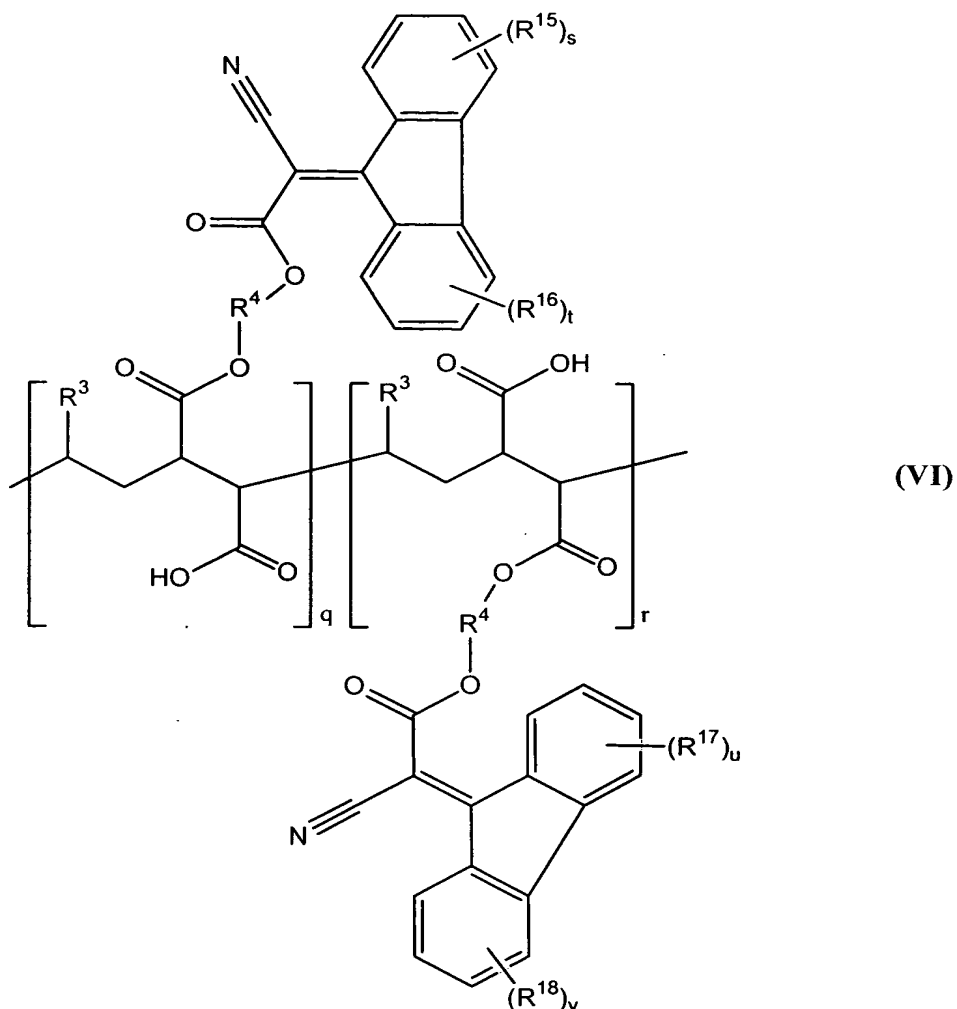
substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

5 46. The method of claim 45, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

 47. The method of claim 46, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

 48. A method of waterproofing a surface, comprising applying a
10 compound of formula (VI) to a selected area of said surface:

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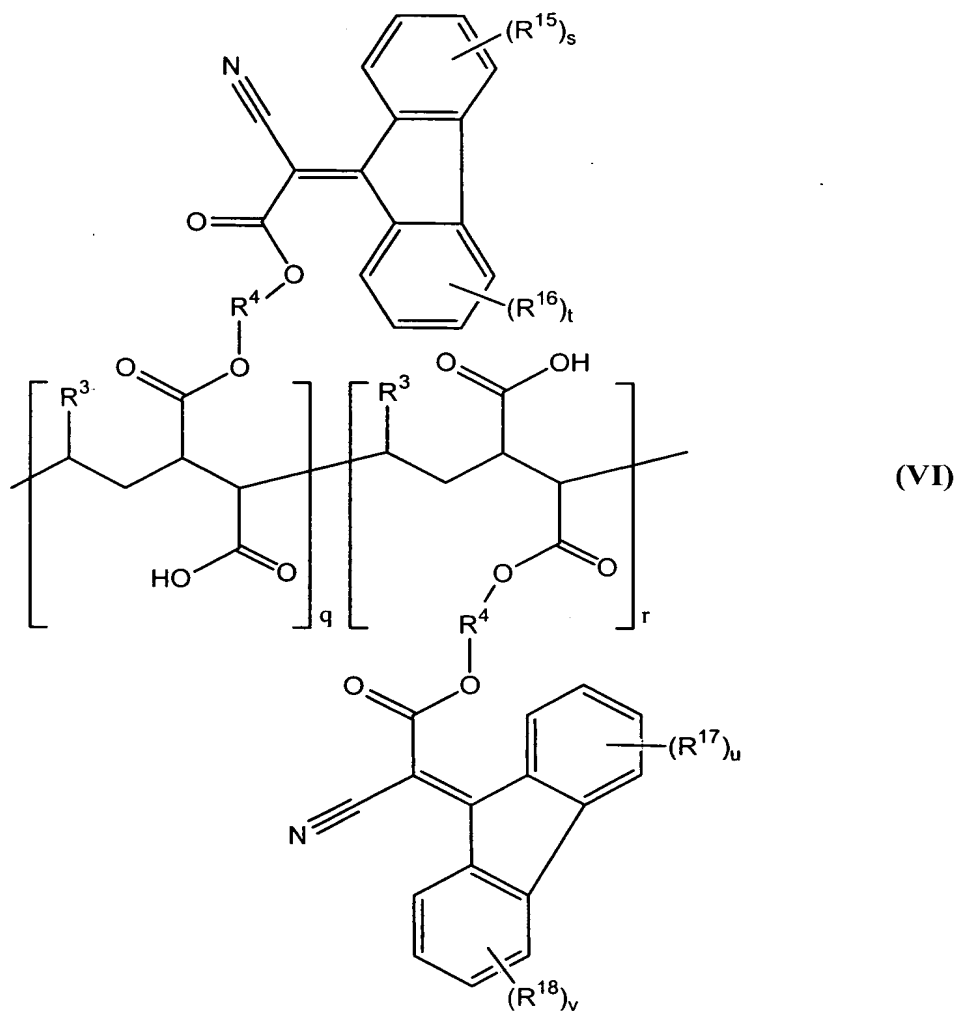
wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,

5 substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

49. The method of claim 48, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

50. The method of claim 49, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

51. A method of protecting a selected area of a material from photodegradation, comprising applying a compound of formula (VI) to said selected area of said material:



wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,

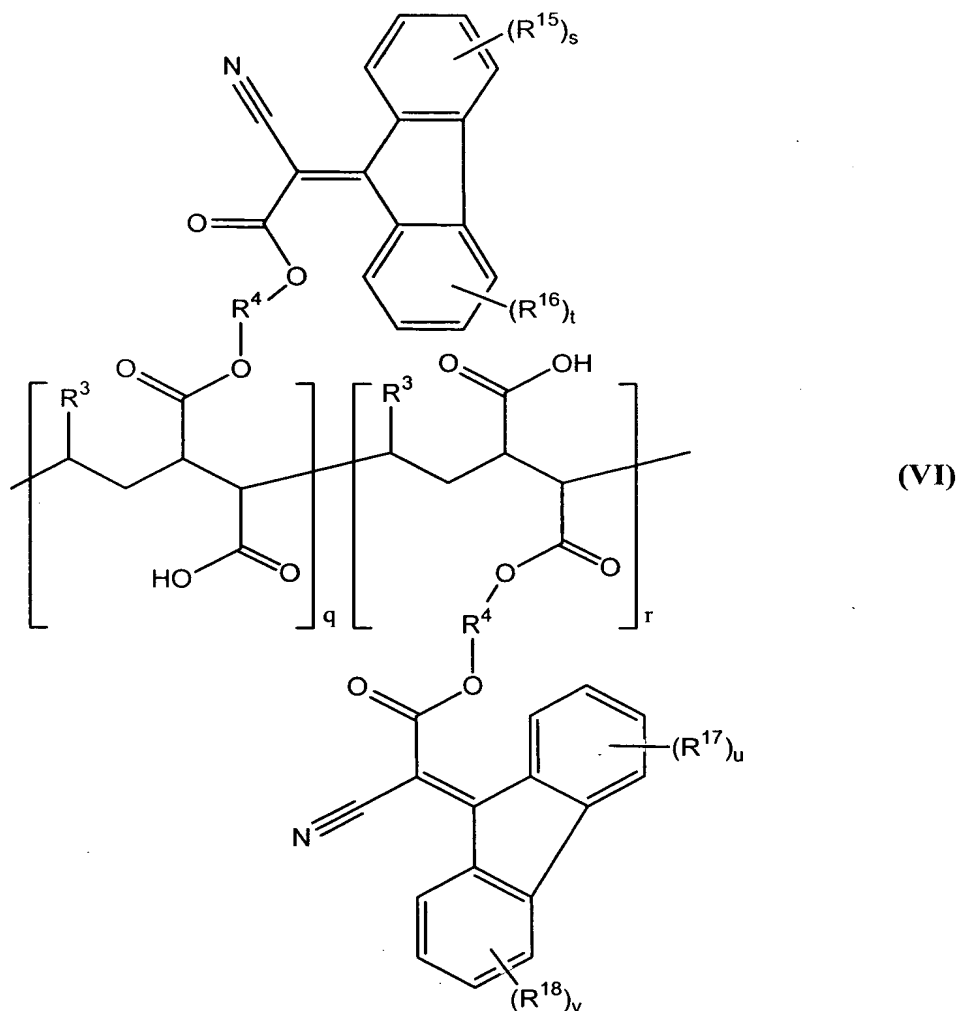
substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

52. The method of claim 51, wherein R³ and R⁴ are selected from the
5 group consisting of C₁-C₃₀ alkyl groups.

53. The method of claim 52, wherein R³ is a C₁₆ straight chain alkyl group, and R⁴ is a 2,2-dimethylpropyl group.

54. A method for forming a film over at least part of a surface, comprising spreading a compound of formula (VI) on said part of said surface:

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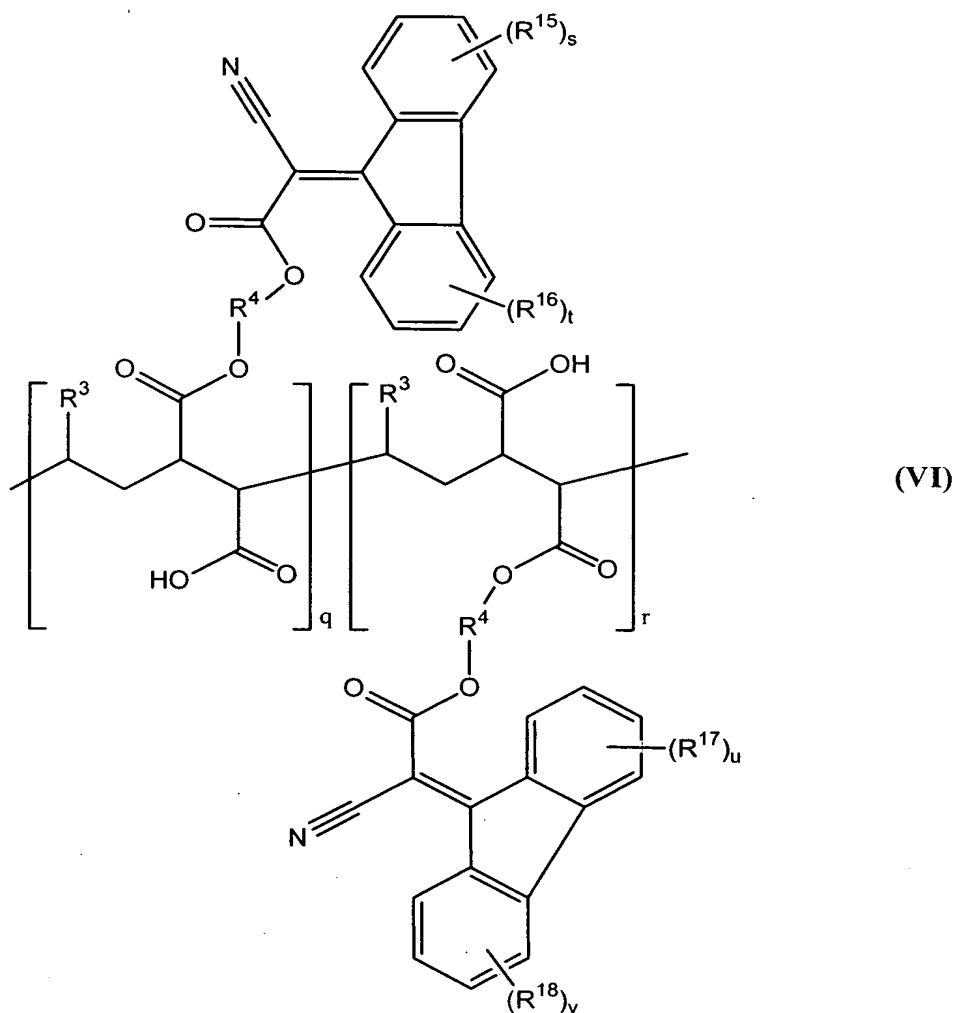


wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s , t , u , and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

55. The method of claim 54, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

56. The method of claim 55, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

57. A method of photostabilizing a dibenzoylmethane derivative, said method comprising the step of, adding to said dibenzoylmethane derivative a
5 photostabilizing amount of a compound of formula (VI):



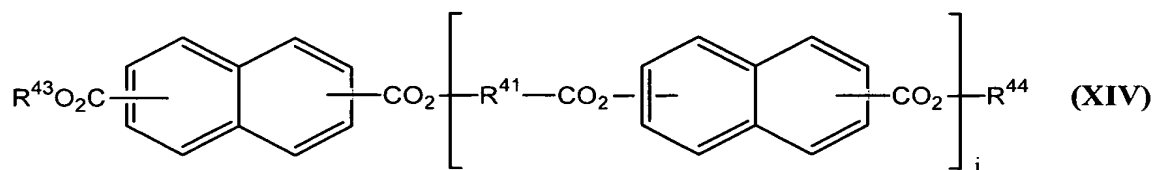
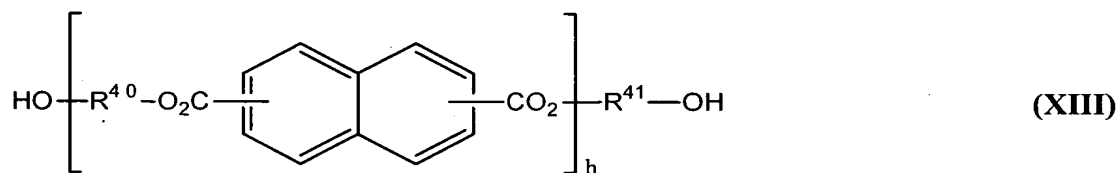
wherein R^3 , R^4 , R^{15} , R^{16} , R^{17} , and R^{18} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl,

substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, s, t, u, and v are each in the range of 0 to 4, q and r are each in the range of 0 to 5000, and the sum of q plus r is at least 1.

58. The method of claim 57, wherein R^3 and R^4 are selected from the group consisting of C_1 - C_{30} alkyl groups.

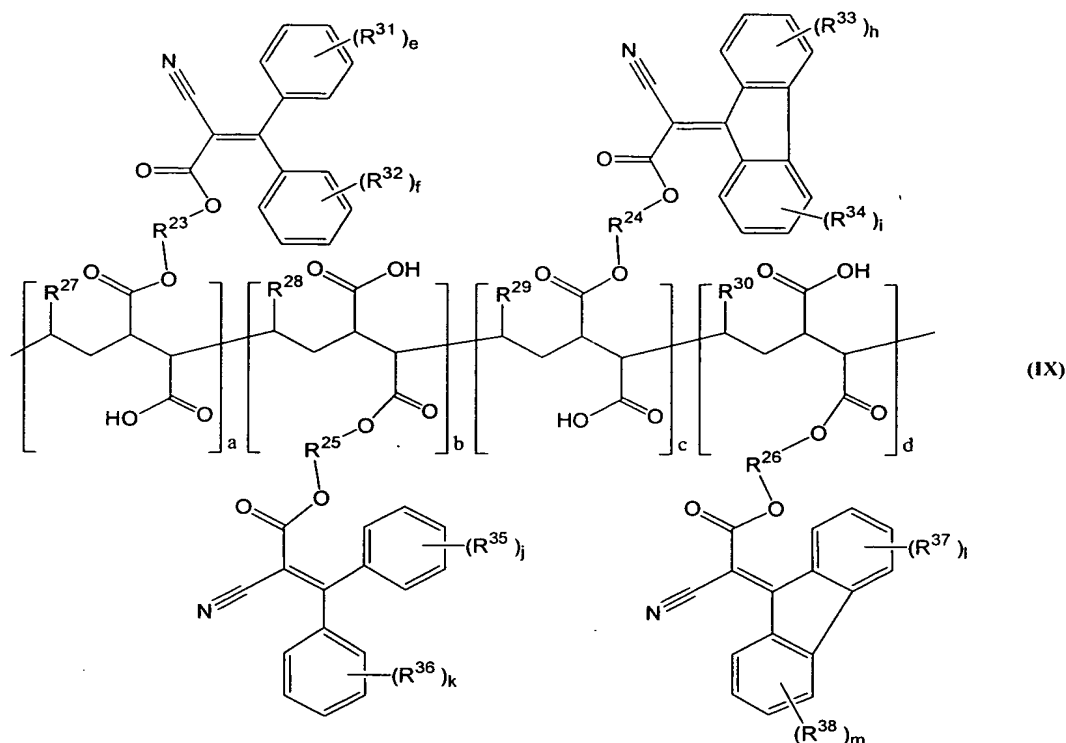
59. The method of claim 58, wherein R^3 is a C_{16} straight chain alkyl group, and R^4 is a 2,2-dimethylpropyl group.

60. The method of claim 57, further comprising the step of, adding to said dibenzoylmethane derivative a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of formulae (XIII) and (XIV), and combinations thereof:



wherein R^{43} and R^{44} are the same or different and selected from the group consisting of C_1 - C_{22} alkyl groups, diols having the structure $\text{HO}-\text{R}^{41}-\text{OH}$, and polyglycols having the structure $\text{HO}-\text{R}^{40}-(\text{---O---R}^{41}\text{---})_j-\text{OH}$; wherein each R^{40} and R^{41} is the same or different and selected from the group consisting of C_1 - C_6 straight or branched chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.

61. A compound of formula (IX):



wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , and R^{38}

are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl,

5 heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted

heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0

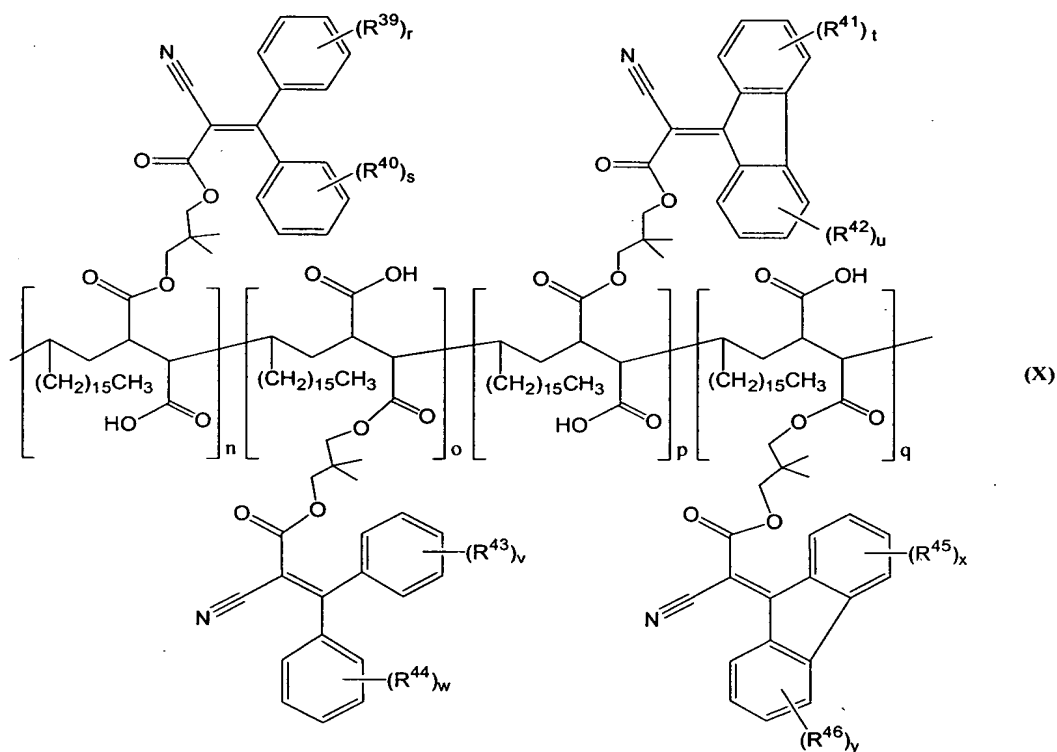
to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

62. The compound of claim 61, wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , and
10 R^{30} are selected from the group consisting of C_1 - C_{30} alkyl groups.

63. The compound of claim 62, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

64. The compound of claim 61, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

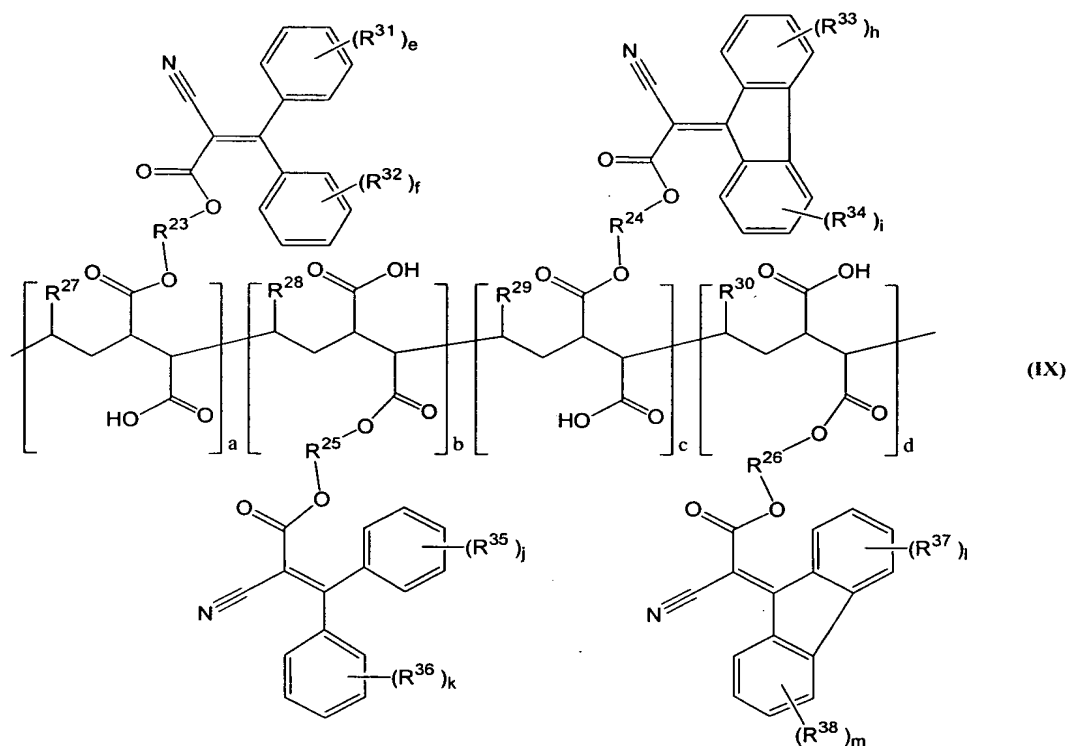
65. A compound of formula (X):



5 wherein R^{39} , R^{40} , R^{41} , R^{42} , R^{43} , R^{44} , R^{45} , and R^{46} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, r, s, t, u, v, w, x, and y are each in the range of 0 to 4, n, o, p, and q are each in the range of 0 to
10 5000, and the sum of n, o, p, and q is at least 1.

66. The compound of claim 65, wherein the Weight-Average Molecular Weight of said compound is in the range of about 30,000 to about 110,000.

67. A sunscreen composition, comprising a mixture of a photoactive compound, and a compound of formula (IX):



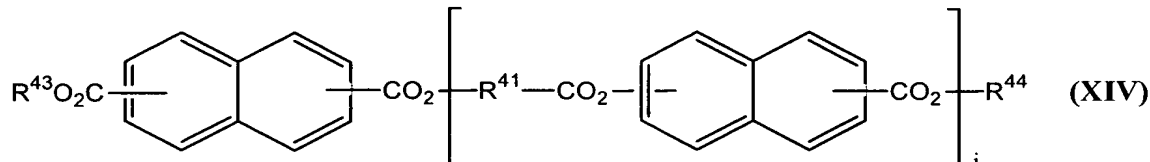
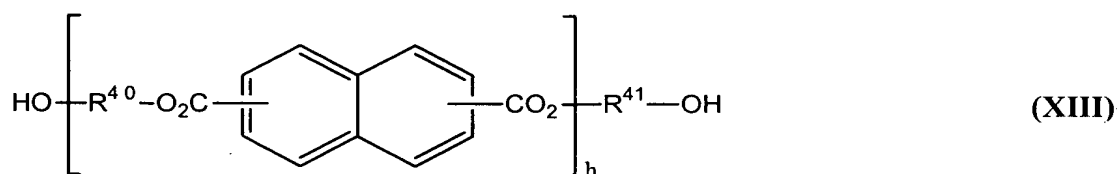
wherein R²³, R²⁴, R²⁵, R²⁶, R²⁷, R²⁸, R²⁹, R³⁰, R³¹, R³², R³³, R³⁴, R³⁵, R³⁶, R³⁷, and R³⁸ are the same or different and selected from the group consisting of C₁-C₃₀ alkyl, C₁-C₃₀ substituted alkyl, C₃-C₈ cycloalkyl, C₃-C₈ substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0 to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

68. The composition of claim 67, wherein R²³, R²⁴, R²⁵, R²⁶, R²⁷, R²⁸, R²⁹, and R³⁰ are selected from the group consisting of C₁-C₃₀ alkyl groups.

69. The composition of claim 68, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

70. The composition of claim 67, wherein said compound of formula (IX) is present said composition in an amount in the range of about 0.01% to about 30% by weight of the total weight of the composition.

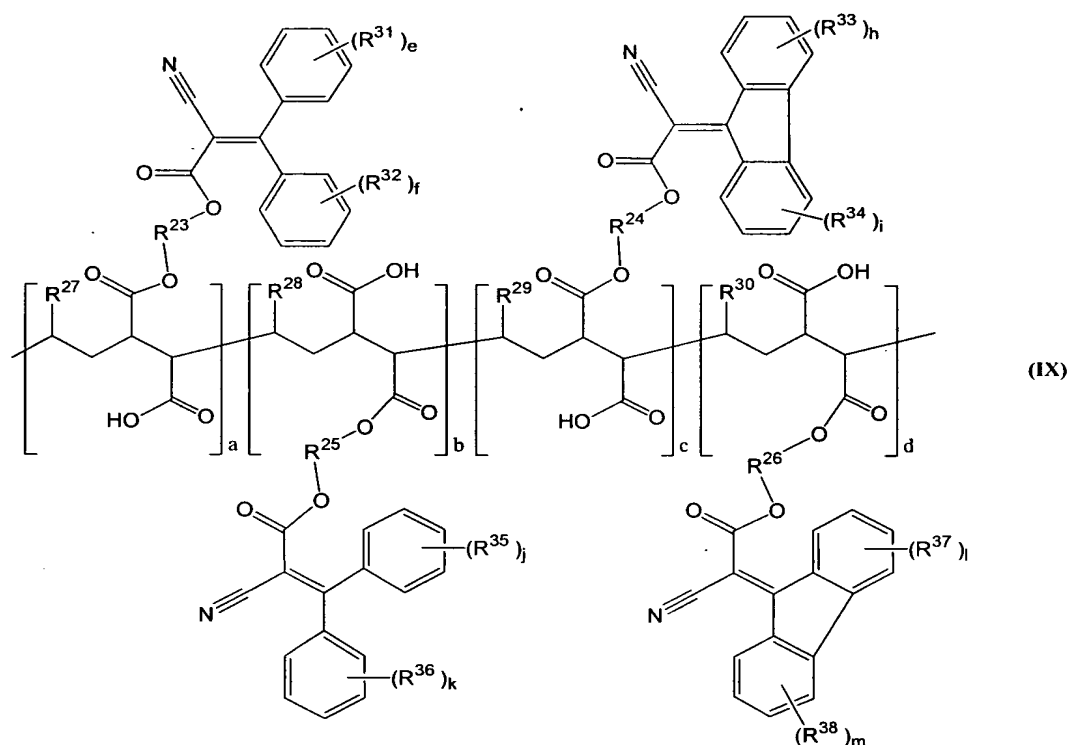
71. The composition of claim 67, further comprising a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of formulae (XIII) and (XIV), and combinations thereof:



wherein R^{43} and R^{44} are the same or different and selected from the group consisting of C_1 - C_{22} alkyl groups, diols having the structure $\text{HO}-\text{R}^{41}-\text{OH}$, and polyglycols having the structure $\text{HO}-\text{R}^{40}-(\text{O}-\text{R}^{41})_j-\text{OH}$; wherein each R^{40} and R^{41} is the same or different and selected from the group consisting of C_1 - C_6 straight or branched chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.

72. A method of protecting human skin from ultraviolet radiation comprising topically applying to said skin, in a cosmetically acceptable carrier, the composition of claim 67.

73. A method of protecting human skin from ultraviolet radiation, comprising topically applying to said skin, in a cosmetically acceptable carrier, a compound of formula (IX):

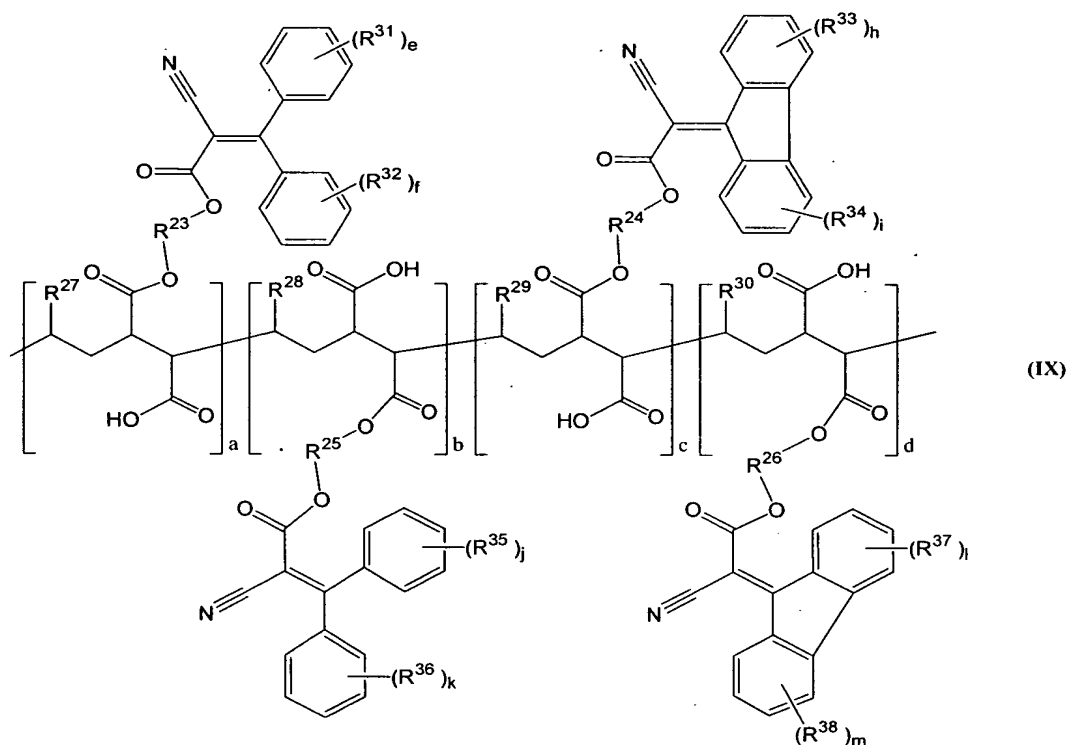


5 wherein R²³, R²⁴, R²⁵, R²⁶, R²⁷, R²⁸, R²⁹, R³⁰, R³¹, R³², R³³, R³⁴, R³⁵, R³⁶, R³⁷, and R³⁸ are the same or different and selected from the group consisting of C₁-C₃₀ alkyl, C₁-C₃₀ substituted alkyl, C₃-C₈ cycloalkyl, C₃-C₈ substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0 to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

74. The method of claim 73, wherein R²³, R²⁴, R²⁵, R²⁶, R²⁷, R²⁸, R²⁹, and R³⁰ are selected from the group consisting of C₁-C₃₀ alkyl groups.

75. The method of claim 74, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

76. A method of waterproofing a surface, comprising applying a compound of formula (IX) to a selected area of said surface:

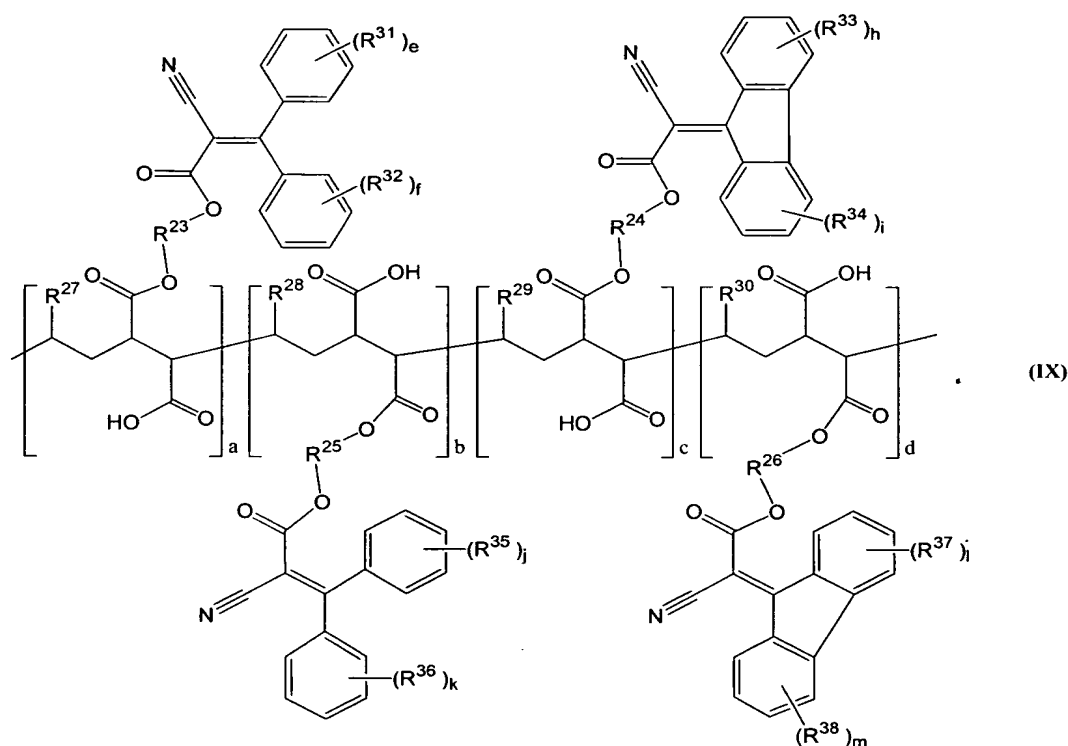


5 wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , and R^{38} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted
10 heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0 to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

77. The method of claim 76, wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , and R^{30} are selected from the group consisting of C_1 - C_{30} alkyl groups.

78. The method of claim 77, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

5 79. A method of protecting a selected area of a material from photodegradation, comprising applying a compound of formula (IX) to said selected area of said material:



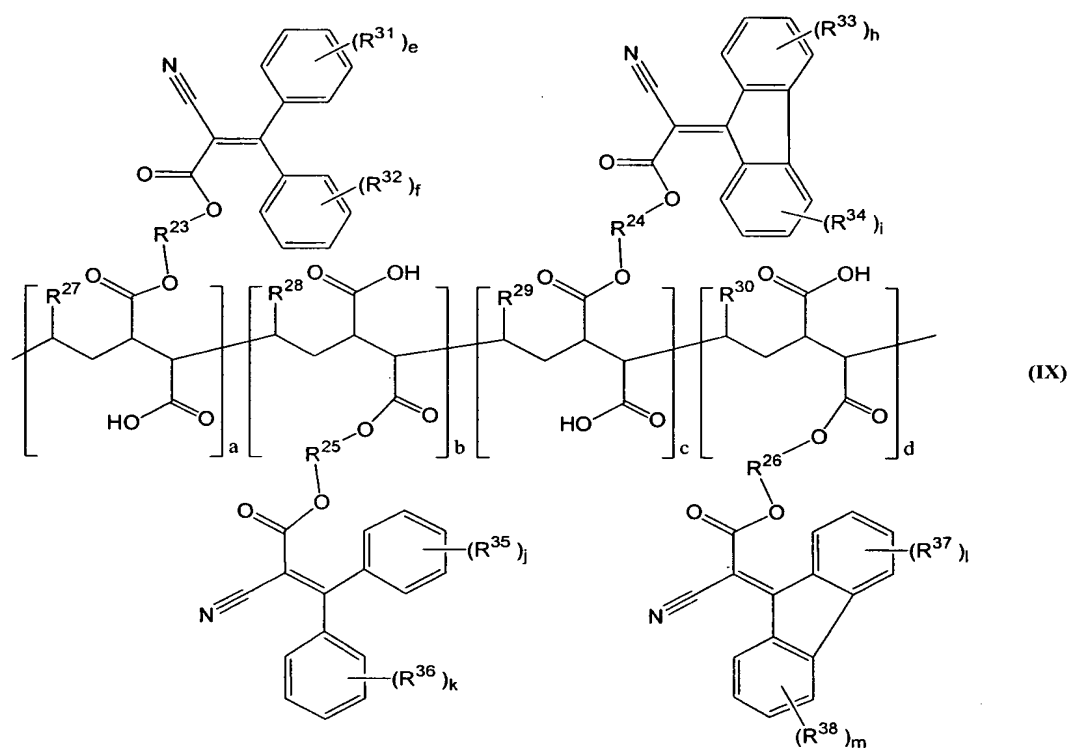
wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , and R^{38}
10 are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0

to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

80. The method of claim 77, wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , and R^{30} are selected from the group consisting of C_1 - C_{30} alkyl groups.

5 81. The method of claim 80, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

82. A method for forming a film over at least part of a surface, comprising spreading a compound of formula (IX) on said part of said surface:



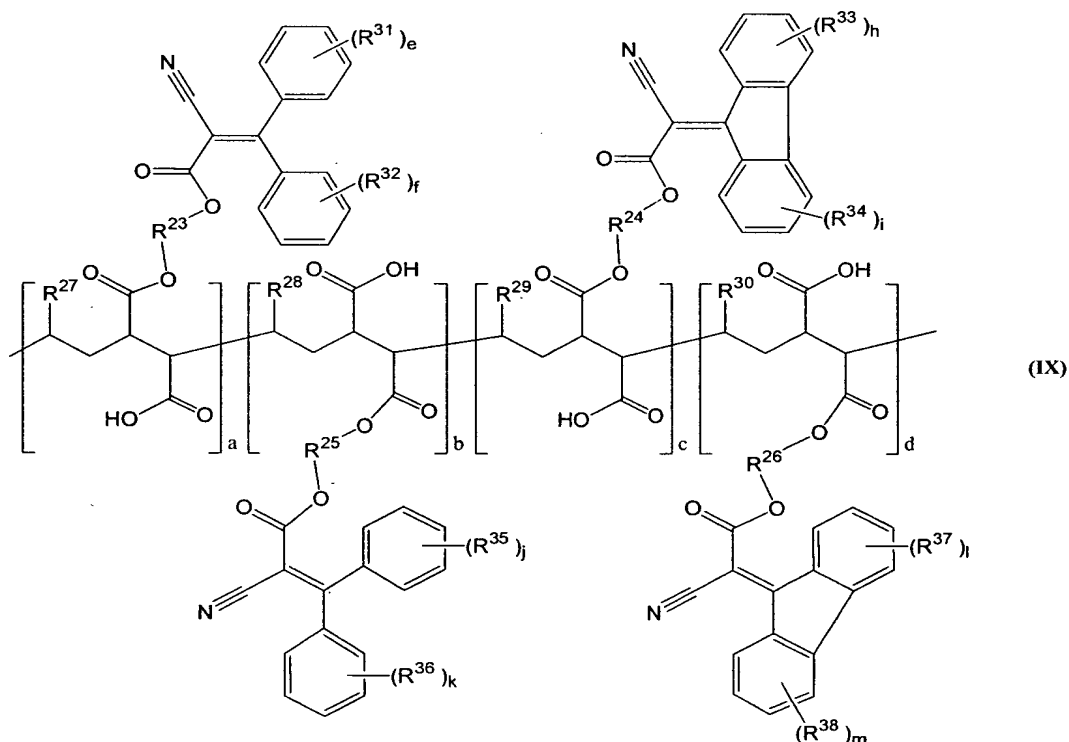
10 wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , and R^{38} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 - C_{30} substituted alkyl, C_3 - C_8 cycloalkyl, C_3 - C_8 substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted

heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0 to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

83. The method of claim 82, wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , and R^{30} are selected from the group consisting of C_1 - C_{30} alkyl groups.

84. The method of claim 83, wherein R^{23} , R^{24} , R^{25} , R^{26} are C_{16} straight chain alkyl groups, and R^{27} , R^{28} , R^{29} , and R^{30} are 2,2-dimethylpropyl groups.

85. A method of photostabilizing a dibenzoylmethane derivative, said method comprising the step of, adding to said dibenzoylmethane derivative a photostabilizing amount of a compound of formula (IX):



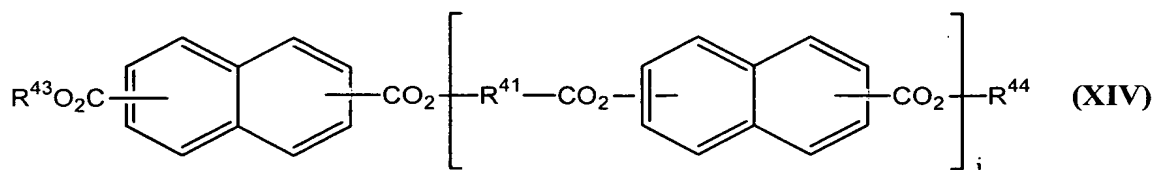
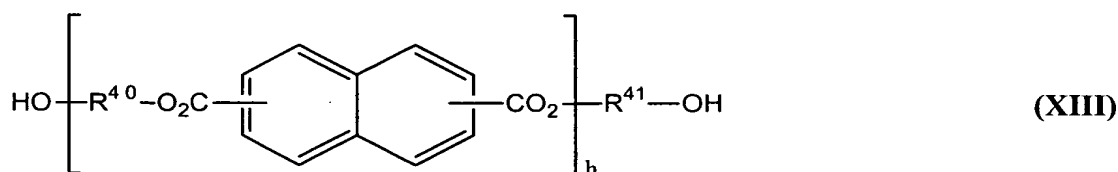
wherein R^{23} , R^{24} , R^{25} , R^{26} , R^{27} , R^{28} , R^{29} , R^{30} , R^{31} , R^{32} , R^{33} , R^{34} , R^{35} , R^{36} , R^{37} , and R^{38} are the same or different and selected from the group consisting of C_1 - C_{30} alkyl, C_1 -

C₃₀ substituted alkyl, C₃-C₈ cycloalkyl, C₃-C₈ substituted cycloalkyl, ester, aryl, heteroaryl, heterocycloalkyl, substituted aryl, substituted heteroaryl, substituted heterocycloalkyl, cyano, and amino, e, f, h, i, j, k, l, and m are each in the range of 0 to 4, a, b, c, and d are each in the range of 0 to 5000, and the sum of a, b, c, and d is at least 1.

86. The method of claim 85, wherein R²³, R²⁴, R²⁵, R²⁶, R²⁷, R²⁸, R²⁹, and R³⁰ are selected from the group consisting of C₁-C₃₀ alkyl groups.

87. The method of claim 86, wherein R²³, R²⁴, R²⁵, R²⁶ are C₁₆ straight chain alkyl groups, and R²⁷, R²⁸, R²⁹, and R³⁰ are 2,2-dimethylpropyl groups.

88. The method of claim 85, further comprising the step of, adding to said dibenzoylmethane derivative a diester or polyester of naphthalene dicarboxylic acid selected from the group consisting of compounds of formulae (XIII) and (XIV), and combinations thereof:



wherein R⁴³ and R⁴⁴ are the same or different and selected from the group consisting of C₁-C₂₂ alkyl groups, diols having the structure HO—R⁴¹—OH, and polyglycols having the structure HO—R⁴⁰—(—O—R⁴¹—)_j—OH; wherein each R⁴⁰ and R⁴¹ is the same or different and selected from the group consisting of C₁-C₆ straight or branched

chain alkyl groups; and wherein h and j are each in a range of 1 to 100 and i is in a range of 0 to 100.